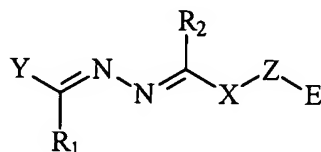


What is claimed is:

1. An organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport compound having the formula



where R<sub>1</sub> and R<sub>2</sub> are, independently, hydrogen, an alkyl group, a heterocyclic group, an alkaryl group or an aryl group; X is an aromatic group; Y is an (N,N-disubstituted) arylamine group; Z is (CH<sub>2</sub>)<sub>m</sub> group where m is an integer between 1 and 30 where one or more of the methylene groups is optionally replaced by O, S, C=O, O=C-O, O=C-NR<sub>3</sub>, sulfoxide, sulfate, phosphate, an aryl group, urethane, urea, a NR<sub>4</sub> group, a CHR<sub>5</sub> group, or a CR<sub>6</sub>R<sub>7</sub> group where R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, a heterocyclic group, an alkaryl group, or an aryl group; and E is an epoxy group; and

(b) a charge generating compound.

2. An organophotoreceptor according to claim 1 wherein the (N,N-disubstituted) arylamine group is selected from the group consisting of p-(N,N-disubstituted)arylamine group, carbazole group, and julolidine group.

3. An organophotoreceptor according to claim 1 wherein the (N,N-disubstituted) arylamine group is a carbazole group.

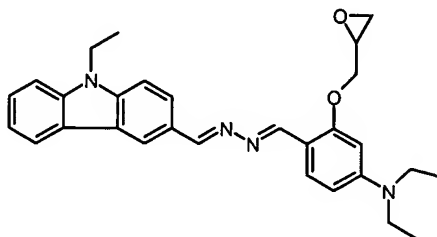
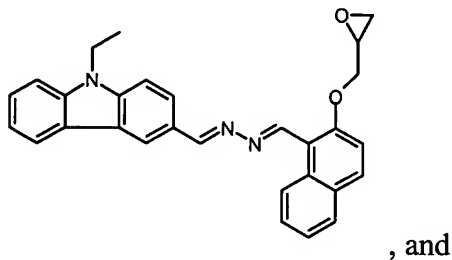
- 25            4. An organophotoreceptor according to claim 1 wherein X is selected from the group consisting of phenylene group, naphthalene group, and (N,N-disubstituted)aminophenylene group.

5. An organophotoreceptor according to claim 1 wherein  $m=2$  and one  $(CH_2)$  group is replaced by O.

6. An organophotoreceptor according to claim 1 wherein  $R_1$  and  $R_2$  are  
5 hydrogens.

7. An organophotoreceptor according to claim 1, wherein the charge transport compound has a formula selected from the group consisting of the following:

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8. An organophotoreceptor according to claim 1 wherein the photoconductive element further comprises an electron transport compound.

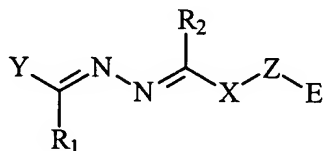
9. An organophotoreceptor according to claim 1 wherein the photoconductive  
20 element further comprises a binder.

10. An electrophotographic imaging apparatus comprising:

(a) a light imaging component; and

(b) an organophotoreceptor oriented to receive light from the light imaging component, the organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising

- 5 (i) a charge transport compound having the formula



where  $R_1$  and  $R_2$  are, independently, hydrogen, an alkyl group, a heterocyclic group, an alkaryl group or an aryl group; X is an aromatic group; Y is an (N,N-disubstituted) arylamine group; Z is  $(\text{CH}_2)_m$  group where m is an integer between 1 and 30 where one or  
10 more of the methylene groups is optionally replaced by O, S, C=O, O=C-O, O=C-NR<sub>3</sub>, sulfoxide, sulfate, phosphate, an aryl group, urethane, urea, a NR<sub>4</sub> group, a CHR<sub>5</sub> group, or a CR<sub>6</sub>R<sub>7</sub> group where R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, a heterocyclic group, an alkaryl group, or an aryl group, and E is an epoxy group; and

- 15 (ii) a charge generating compound.

11. An electrophotographic imaging apparatus according to claim10 wherein Y is selected from the group consisting of a p-(N,N-disubstituted)arylamine group, a carbazole group, and a julolidine group.

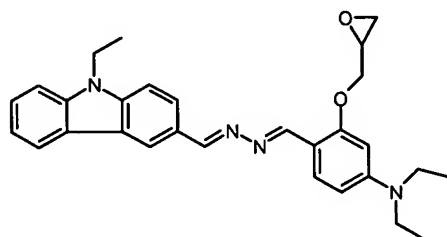
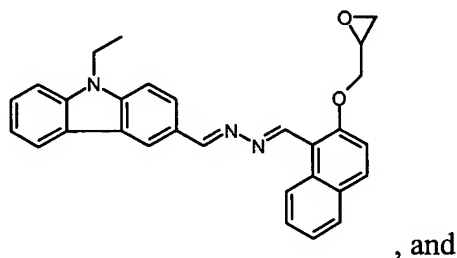
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12. An electrophotographic imaging apparatus according to claim10 wherein X is selected from the group consisting of phenylene group, naphthalene group, and (N,N-disubstituted)aminophenylene group.

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13. An electrophotographic imaging apparatus according to claim 10 wherein  $m=2$  and one of the  $(\text{CH}_2)$  groups is replaced by O.

14. An electrophotographic imaging apparatus according to claim 10 wherein the charge transport compound has a formula selected from the group consisting of the following:



10 15. An electrophotographic imaging apparatus according to claim 10 wherein the photoconductive element further comprises an electron transport compound.

16. An electrophotographic imaging apparatus according to claim 10 wherein the photoconductive element further comprises a binder.

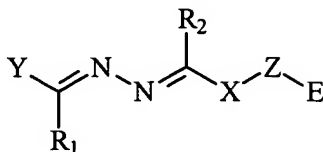
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17. An electrophotographic imaging apparatus according to claim 10 further comprising a liquid toner dispenser.

18. An electrophotographic imaging process comprising:

20 (a) applying an electrical charge to a surface of an organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising

(i) a charge transport compound having the formula



where  $R_1$  and  $R_2$  are, independently, hydrogen, an alkyl group, a heterocyclic group, an alkaryl group or an aryl group; X is an aromatic group; Y is an (N,N-disubstituted) arylamine group; Z is  $(CH_2)_m$  group where m is an integer between 1 and 30 where one or more of the methylene groups is optionally replaced by O, S, C=O, O=C-O, O=C-NR<sub>3</sub>, sulfoxide, sulfate, phosphate, an aryl group, urethane, urea, a NR<sub>4</sub> group, a CHR<sub>5</sub> group, or a CR<sub>6</sub>R<sub>7</sub> group where R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, a heterocyclic group, an alkaryl group, or an aryl group, and E is an epoxy group; and

- 10 (ii) a charge generating compound;
- (b) imagewise exposing the surface of the organophotoreceptor to radiation to dissipate charge in selected areas and thereby form a pattern of charged and uncharged areas on the surface;
- (c) contacting the surface with a toner to create a toned image; and
- 15 (d) transferring the toned image to a substrate.

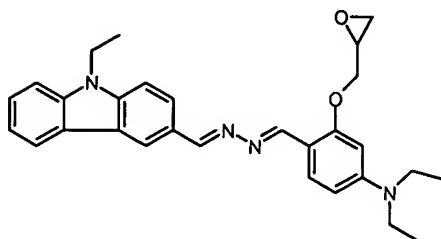
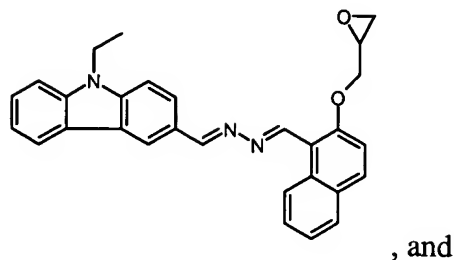
19. An electrophotographic imaging process according to claim 18 wherein the (N,N-disubstituted) arylamine group is selected from the group consisting of a p-(N,N-disubstituted) arylamine group, a carbazole group, and a julolidine group.

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20. An electrophotographic imaging process according to claim 19 wherein the (N,N-disubstituted) arylamine group is a carbazole group.

21. An electrophotographic imaging process according to claim 19 wherein the charge transport compound has a formula selected from the group consisting of the following:

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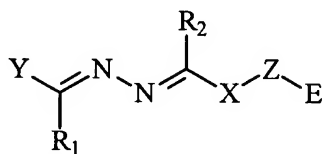


22. An electrophotographic imaging process according to claim 19 wherein the photoconductive element further comprises an electron transport compound.

23. An electrophotographic imaging process according to claim 19 wherein the photoconductive element further comprises a binder.

24. An electrophotographic imaging process according to claim 19 wherein the toner comprises a liquid toner comprising a dispersion of colorant particles in an organic liquid.

25. A charge transport compound having the formula



where  $\text{R}_1$  and  $\text{R}_2$  are, independently, hydrogen, an alkyl group, a heterocyclic group, an alkaryl group or an aryl group; X is an aromatic group; Y is an (N,N-disubstituted) arylamine group; Z is  $(\text{CH}_2)_m$  group where m is an integer between 1 and 30 where one or more of the methylene groups is optionally replaced by O, S, C=O, O=C-O, O=C-NR<sub>3</sub>,

sulfoxide, sulfate, phosphate, an aryl group, urethane, urea, a  $\text{NR}_4$  group, a  $\text{CHR}_5$  group, or a  $\text{CR}_6\text{R}_7$  group where  $\text{R}_3$ ,  $\text{R}_4$ ,  $\text{R}_5$ ,  $\text{R}_6$ , and  $\text{R}_7$  are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, a heterocyclic group, an alkaryl group, or an aryl group, and E is an epoxy group.

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26. A charge transport compound according to claim 25, wherein the (N,N-disubstituted) arylamine group is selected from the group consisting of a p-(N,N-disubstituted) arylamine group, a carbazole group, and a julolidine group.

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27. A charge transport compound according to claim 25 wherein X is selected from the group consisting of phenylene group, naphthalene group, and (N,N-disubstituted) aminophenylene group.

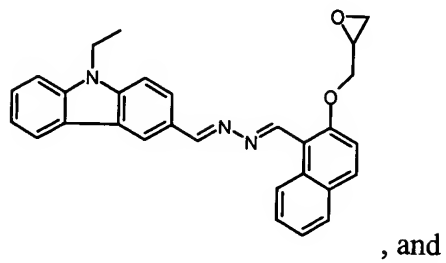
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28. A charge transport compound according to claim 25 wherein  $m=2$  and one of the  $(\text{CH}_2)$  groups is replaced by O.

29. A charge transport compound according to claim 25 wherein the (N,N-disubstituted) arylamine group is a carbazole group.

20

30. A charge transport compound according to claim 25 wherein the charge transport compound has a formula selected from the group consisting of the following:



, and

